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# *The* Longitudes, Latitudes, right Aſcenſions, *and* Declinations *of the chiefeſt* fixt Stars *according to the beſt* Obſervers; *in a Letter from* Mr. Edward Bernard, *to the reverend and learned Dr.* Rob. Huntington Provoſt *of* Trinity College *near* Dublin *in* Ireland.

Edvardus Bernardus Roberto Huntingtonio S.

DUm dies aliquot rigidiſſimæ omnium brumæ, quarum apud vivos memoria, in Muſeo Mertonenſi, ubi te nuper ac olim novimus, ego forte comburerem, crudamque tui abſentiam opportunitate loci quadantenus lenirem: inter codices tuos Arabicos (numeras autem plus quadraginta doctrinæ & obſervationis Sideralis refertis) in Tabulis Ilchanicis ſtudio Perſæ præclari Choagæ Naſirodini Tuſii factum offendi, ut precipui honoris ſtellas fixas ſecundum variorum Aſtronomorum varia obſervata, qua Latæ ut Loquuntur, quave illæ Longæ in cælo deprehendebantur, brevis pagina repræſentaret. Hoc ergo Canonion partim ex tuo peculio, ut vides, partim ab aliis adauxi. Non equidem quaſi rem magnam mihi viderer adeo feciſſe. Verum ut noſtri homines ſenſum ac opinionem aliquam concipiant Aſtronomiæ Orientis, ubi ars ea primum nata conſtat: aut ſubtiliora adhuc deſiderent pro otio noſtro ex Arabum Almageſtis exponenda: aut potiſſimum, ut tu, Vir chariſſime, amicitiæ noſtræ teſſeram habeas non obſcuram, ſed notam tibi ac familiarem. Multa ſane commendant Aſtronomiam Orientalium. Felicitas quidem & claritas regionum, ubi obſervatum: Machinarum granditas & accuratio, quantas plerique noſtri credere nolunt cœlo ipſos obvertiſſe. Contemplantium inſuper numerus & ſcribentium, decuplo major quam apud Græcos Latinoſque celebratur. Adde decuplo plures, munificentiores, ac potentiores Principes, qui viris boni ingenii ſumtus & arma cæleſtia dederunt. Quid vero Aſtronomi Arabum in Cl. Ptolemæo, magno Conſtructore artis Cæleſtis, injuria nulla reprehenderint: quam illi ſollicite temporis minutias, per aquarum guttulas, immanibus Sciotheris, imo (mirabere) fili penduli vibrationibus, jampridem diſtinxerint & menſurarint: quam etiam perite & accurate verſaverint in magno molimine ingenii humani, de ambitu intervalloque binorum Luminarium & noſtri Orbis, una epiſtola narrare non debet. Bene tibi, antiquiſſime amicorum, bene philoſophis Hibernis.

Dabam ex Bibliotheca veſtra Orientali apud Oxoniam VI. KAL. Apriles. CIↃIↃCLXXXIIII.

# CANON PRÆCIPUARUM ESTELLIS FIXIS SECUNDUM OBSERVATA MAJORUM.

*m. Meridionalis.*
*b. Borealis.*

*a Cl. Ptolemæo in magna Syntaxi an. Chriſti. 137.*

| | | | Long. | Latit. | Magnit. |
|---|---|---|---|---|---|
| 1. 34. | Ultima Fluvii. ὁ ἔσχατος τοῦ ποταμοῦ λαμπρός. اخر النهر للظليم, αὔλαξ. | ♈ | 10 30′. | 53 30′ *m.* | 1. *al.* 50′. |
| 2. 12. | Lucida cathedræ Caſſiepeiæ. ὁ ὀπὶ μέσῃ τῇ ἀναχλίδι. كف الخضيب, χεὶρ βεβαμμένη. | ♈ | 7 50′. | 51 40′ *b.* | 3. |
| 3. 12. | Perſei caput Meduſæum. τὸ ἐν τῷ γοργονείῳ ὁ λαμπρός. γοργόνιον. Algol. راس الغول, κεφαλὴ ἵππου, rectius μορμοῦς. | ♈ | 29 40′. | 23 0′ *b.* | 2. *al.* 20′. |
| 4. 14. | Oculus Tauri auſtrinus. ὁ λαμπρὸς τῶν ὑάδων ὀπὶ τῇ νοτίᾳ ὀφθαλμῷ τοῦ κριοῦ. λαμπαύρας. ὄμμα βοὸς, عين الثور. الدبران. | ♉ | 12 40′. | 5 10′ *m.* | 1. *al.* 20′. |
| 5. 35. | Orionis pes ſiniſter. ὁ ἐν τῷ ἀριστερῷ ἀκροποδὶ τοῦ ὠρίωνος λαμπρὸς, τῇ ὕδατος κοινός. Rigel. ποὺς δ. δύμων. رجل الجوزا اليسري. | ♉ | 20 50′. | 31 30′ *m.* | 1. |
| 6. 3. | Capella Aurigæ. ὁ ἐπ' ἀριστερᾷ ὤμῳ τοῦ ἡνιόχου, καλέμβος αἴξ. αἰὲκ, عيوق, Pleiadum remora. | ♉ | 25 0′. | 22 30′ *b.* | 1. |
| 7. 2. | Orionis humerus dexter. ὁ ὀπὶ δεξιᾷ ὤμῳ τοῦ ὠρίωνος λαμπρὸς κοινός. ὦμος δεξιός. يد الجوزا. *Aliquibus* humerus ſiniſter præcedens. | ♊ | 2 0′. | 17 0′ *m.* | 1. |
| 8. 1. | Sirius in ore Canis majoris. ὁ ἐν τῷ στόματι τοῦ κυνὸς λαμπρότατος, καλέμβος κύων, κοινός. σειὴρ ἰαμανὴ, شعري جمانية, Sirius auſtralior. Alhabor, العبور, γαλακτοποιός. | ♊ | 17 40′. | 39 10 *m.* | 1. *al.* 20′. |
| 9. 2. | Procyon, aut Canis minor. ὁ χρὶ τὸ ὀπισθίου τοῦ προκυνὸς λαμπρὸς, καλέμβος προκύων. σειὴρ σαμὴ, شعري شامية, Sirius borealior. Algomeiſa, الغميصا, tamquam lippa. | ♊ | 29 30′. | 16 10′ *m.* | 1. *al.* 10′. |
| 10. 8. | Cor Leonis. ὁ ὀπὶ τῇ καρδίᾳ τοῦ λεόντος, καλέμβος βασιλίσκος. Regulus, قلب الاسد. الملكي. | ♌ | 2 30′. | 0 10′ *b.* | 1. *al.* 10′. |
| 11. 14. | Spica Virginis. ὁ ὀπὶ τῇ ἀριστερᾷ ἀκροχείρᾳ τῆς παρθένου, καλέμβος στάχυς. μικρὸς κονταράτος, سماك الاعزل, fulcrum inermis. السنبلة. | ♍ | 26 40′. | 2 0′ | 6. |

12.23.

# CANON PRÆCIPUARUM E STELLIS FIXIS SECUNDUM OBSERVATA MAJORUM.

*a Cl. Ptolemæo in magna Syntaxi an. Christi 137.*

| | | | Long. | Latit. | Magnit. |
|---|---|---|---|---|---|
| 12. 23. | Arcturus. ὁ μεταξὺ τῶν μηρῶν τῆς βοώτου, καλούμενος ἀρκτῖνος, ὑποκίρρος. κονταράτος. سماك الرامح, τὸ ἔρεισμα τῆς ὁπλίτου. | } | mp 27 0′. | 31 30′ b. | 1. |
| 13. 8. | Antares. τῶν ἐν τῷ σώματι τοῦ σκορπίου ὁ μέσος καὶ ὑποκίρρος, καλούμενος ἀντάρης. καρδία σκορπίου, قلب العقرب. | } | ♏ 12 40′. | 4 0′ m. | 2. al. 20′. |
| 14. 1. | Caput Ophiuchi. ὁ ὀπὶ τὰ κεφαλῆς τοῦ ὀφιέχου. الراعي. رأس الحوا, ὁποιμιῶ. | } | ♐ 7 24 50′. | 36 0′ b. | 3. |
| 15. 1. | Lucida Lyræ. ὁ λαμπρὸς ὀπὶ τοῦ ὀστράκου, καλούμενος λύρα. γνὺξ καθειμένου, النسر الواقع. | } | ♑ 17 20′. | 62 0′ b. | 1. |
| 16. 3. | Aquilæ lucida. ὁ ὀπὶ τῆς μεταφρένου τοῦ ἀετοῦ λαμπρὸς, καλούμενος ἀετός. γνὺξ πετόμενος, النسر الطاير. | } | ♒ 3 50′. | 29 10′ b. | 2. |
| 17. 5. | Lucida in cauda Cygni. ὁ ἐν τῇ ἐρᾷ τοῦ ὄρνιθος λαμπρὸς. ἐρὰ ὄρνιθος, ذنب الدجاجة, διάδοχος. | } | ♒ 9 10′. | 60 0′ b. | 2. |
| 18. 3. | Lucida in crure dextro Pegasi. ὁ ὀπὶ τῷ δεξιῷ ὤμου τοῦ ἵππου καὶ τῆς τοῦ ποδὸς ἐκφύσεως. Seat. ὦμος ἵππου. منكب الفرس المقدم. الفرع المقدم. | } | ♓ 2 10′. | 35 0′ b. | 2. |
| 19. 2. | Alæ Pegasi ultima. ὁ ὀπὶ τῆς ὀσφύος τοῦ ἵππου καὶ ἄκρου τοῦ πτερυγὸς αὐτοῦ. πήγασος. Algenib. الفرع المؤخر, جناح الفرس. | } | ♓ 12 10′. | 12 30′ b. | 2. |
| 20. 7. | Perſei lucidum latus. ὁ ἐν τῷ δεξιῷ πλευρῷ τοῦ περσέως λαμπρός. πλευρὰ περσέως. مرفق الثريا, Pleiadum cubitus. الكف الجذما, manus curta. | } | ♉ 4 50′. | 30 0′ b. | 2. |
| 21. 27. | Cauda Leonis. ὁ ἐπ' ἄκρας τῆς ἐρᾶς τοῦ λέοντος. الصرفة. | } | ♌ 24 30′. | 11 50′ b. | 1. |
| 22. 1. | Os Piſcis auſtralis in aqua extrema. ὁ ἐν τῷ σόματι τοῦ ἰχθύος τοῦ νοτίου. σόμα ἰχθύος μέσον. فم الحوت الجنوبي. | } | ♒ 7 0′. | 23. 0′ m. | 1. |
| 23. 44. | Canopus. τὸ ἐν τῷ νοτίῳ πηδαλίῳ τῆς ἀργοῦς ὁ προηγούμενος, καλούμενος κάνωβος. σοαὶλ ἰαμανὴ, سهيل اليمن, quaſi ſidus benignum. | } | ♊ 17 10′. | 75 0′ m. | 1. |

# PRÆCIPUARUM FIXARUM CANON JUXTA OBSERVATIONES SELECTAS.

| | ε. *Ali Abolcaſimo anno Chriſti* 938. | | γ. *Abdorahmane Sophio an. Chriſti* 964. *Is cum Ptolemæo convenit κατὰ πλάτος.* | |
|---|---|---|---|---|
| | *Longit.* | *Latit.* | *Longit.* | |
| 1 Ultima fluvii. | 0. 11, 50. | 53 30′ | 0 12 | 53′ |
| 2 Lucida cathedræ Caſſiepeiæ. | 0. 20, 20. | 51 45′ | 0 20 | 32′ |
| 3 Perſei caput Meduſæum. | 1. 12, 17′. | 22 45′ | 1 12 | 22′ |
| 4 Oculus Tauri auſtrinus. | 1. 24, 35′. | 5 15′ | 1 25 | 22′ |
| 5 Orionis pes ſiniſter. | 2. 2, 1′. | 31 4′ | 2 2 | 32′ |
| 6 Capella Aurigæ. | 2. 6, 49′. | 22 50′ | 2 7 | 42′ |
| 7 Orionis humerus dexter. *Nonnullis* humerus ſiniſter præcedens. | 2. 13, 16′. | 16 45 | 2 14 | 42′ |
| 8 Sirius. | 2. 29, 30′. | 39 20′ | 3 0 | 22′ |
| 9 Procyon. | 3. 10, 40′. | 16 0′ | 3 11 | 12′ |
| 10 Cor Leonis. | 4. 24, 40′. | 0 15′ | 4 15 | 12′ |
| 11 Spica Virginis. | 6. 8, 23′. | 2 6′ | 6 9 | 22′ |
| 12 Arcturus. | 6. 8, 50′. | 31 12′ | 6 9 | 42′ |
| 13 Antares. | 7. 24, 35′. | 4 24′ | 7 25 | 22′ |
| 14 Caput Ophiuchi. | 8. 6, 53′. | 36 0′ | 8 7 | 32′ |
| 15 Lucida Lyræ. Vultur cadens. | 9. 0, 40′. | 61 45′ | 9 0 | 2′ |
| 16 Aquilæ lucida. Vultur Volans. | 9. 15, 53′. | 29 12′ | 9 16 | 32′ |
| 17 Lucida in cauda Cygni. | 10 20, 4′. | 59 36′ | 10 21 | 52′ |
| 18 Lucida in crure dextro Pegaſi. | 11. 14, 0′. | 31 10′ | 11 14 | 52′ |
| 19 Alæ Pegaſi ultima. | | | 11 24 | 52′ |
| 20 Perſei lucidum latus. | 1. 16, 15′. | 30 8′ | 1 17 | 32′ |
| 21 Cauda Leonis. | 5. 6, 40′. | 11 50′ | 5 7 | 12′ |
| 22 Os Piſcis auſtralis. | | | 10 18 | 12′ |
| 23 Canopus. | | | 2 29 | 52′ |

δ *Ebn-*

# CANON PRÆCIPUARUM ESTELLIS FIXIS SECUNDUM OBSERVATA MAJORUM.

| δ. *Ebnolalamo an. Christi* 980. | ε. *Ex Canonibus Hacimicis Johannidæ Ægyptij an. Christi* 996. | ς. *Choagæ Nasiro-dino Tusio in Tabulis Ilchanicis an. Chr.* 1233. | ζ. *Ex Sultanicis Ologbeci anno Christi.* 1437. | η. *Abdolgalilo Segazio in Genethliacis anno Chr.* 1261. |
|---|---|---|---|---|
| *Longit.* *Latit.* | *Longit.* *Latit.* | *Longit.* *Latit.* | *Longit.* *Latit.* | *Longit.* |
| 01.6,42'.53,30' | 0.16,20'.53,28' | 0.24,55'.51,45' | 0.15,40'.53,45' | 0.6,45' |
| 0.24, 9'.51,45' | 0.24,34'.51,50' | 0.24,35'.51,40' | 0.28, 1'.50, 48' | 0.25,2 |
| 1.15, 1'.22,45' | 1.15,24'.22,39' | 1.16, 25'.23,0' | 1.18,54'.22, 0' | 1.16,52' |
| 1.28,40'. 5, 15' | 1.29, 7'. 5,15' | 1.29,22'.5, 13' | 2. 2,31'. 5,15' | 1.29,45' |
| 2. 5,55'.31,20' | 2. 5,30'.31,35' | 2. 6, 35'.31,30' | 2. 9,25'.31,18' | 2. 6,52' |
| 2.10,50'.22,50' | 2. 11,32'.22, 3' | 2.11,10'.22,40' | 2.14,43'.22,42' | 2.11,43' |
| 2.17,21'.16,45' | 2.17,46'.16, 50' | 2.18, 0'.16,50' | 2.21,13'.16,43' | 21.9,12' |
| 3. 3,40'.39,20' | 3.4, 2'.39,30' | 3. 3,50'.39,10' | 3.6, 19'.39,30' | 3.4, 28' |
| 3.15,45'.16, 0' | 3.15,52'.16, 2' | 3.15,45'.16,5' | 3.18,22'.16,0' | 3.16,11' |
| 4.18,45'. 0,15' | 4.19, 10'.0, 10' | 4.19,14'. 0, 17' | 4.22,13'. 0, 9' | 4.19,42' |
| 6.12,33'.2, 6' | 6.12, 58'.2, 10' | 6.13, 25'.1,52' | 6.16, 10'.2, 9' | 6.13,26' |
| 6.12,55'.31, 12' | 6.13,49'.31,33' | 6.13, 0'.31, 25' | 6.16,31'.31, 18' | 6.13,47' |
| 7.28,40'.4, 24' | 7.29, 9'. 4, 25' | 7. 29, 0'.4, 10' | 8. 2, 16'.4, 30' | 7.29.45' |
| 8. 11, 2'.36, 0' | 8.11, 34'.35,59' | 8.11,15'.35,55' | 8.15,13'.55, 51' | 8.11,49' |
| 9.4,45'.61,45' | 9. 5, 0'.61,55' | 9.4,40'.61, 50' | 9. 8, 19'.62, 0' | 9. 5, 38' |
| 9.20,58'.23,14' | 9.20 34'.29,10' | 9.20,40'.29,15' | 9.24, 10'.29,15' | 92.0,56' |
| 10.24,9'.59,36' | 10.23,31'.59,38' | 10.24,30'.59,50' | 10.28,46'59,42' | 10.26,15' |
| 11.18,54'.31,10' | 11.18,44'.31, 12' | 11. 18,44'.31,12' | 11.21,37'.30,51' | 1'.18,58' |
| 11.24 52'.2,30' | | 11.18,55'.31, 1' | 0. 1, 22'.12, 34' | |
| | | 1.21,35'.30, 0' | 1. 25, 7'.29,21' | 1. 22, 2' |
| | | 5.11,55'.11,50' | 5.13, 49'. 12, 0' | 5.11, 38' |
| | | 10.23,45'.23, 0' | 10.20,40'21,30' | 10.23,53' |
| | | 3. 3,55'.75. 0 | * | 3. 4, 3' |

* *Non vidit unquam nepos Timuri clarum Canonum; non ceteri hujus Canonis, exceptis Alexandrinis.*

# PRÆCIPUARUM FIXARUM CANON JUXTA OBSERVATIONES SELECTAS.

| | ϑ *Ex Perſicis Chryſococca anno Chr.* 1115. *Longit.* | ι *Ex Canonibus Perſarum Pembrochianis an Chr.* 1346. *Melixæ* 338. *Longit.* |
|---|---|---|
| 1 Ultima fluvii. | ♈ 15 10′ | 0′ |
| 2 Lucida cathedræ Caſſiepeiæ. | ♈ 22 50′ | 0′ |
| 3 Perſei caput Meduſæum. | ♉ 14 40′ | 18 10′ |
| 4 Oculus Tauri auſtrinus. | ♉ 27 0′ | ♊ 1 30′ |
| 5 Orionis pes ſiniſter. | ♊ 4 50′ | 8 20′ |
| 6 Capella Aurigæ. | ♊ 10 50′ | 13 3′ |
| 7 Orionis humerus dexter. *Nonnullis* humerus ſiniſter præcedens. | ♊ 17 0 | 20 30′ |
| 8 Sirius. | ♋ 2 40′ | 18 0′ |
| 9 Procyon. | ♋ 14 10′ | 18 0′ |
| 10 Cor Leonis. | ♌ 17 30′ | 9 31′ |
| 11 Spica Virginis. | ♎ 11 40′ | 15 10′ |
| 12 Arcturus. | ♎ 12 0′ | 15 30′ |
| 13 Antares. | ♏ 27 40′ | ♐ 1 10′ |
| 14 Caput Ophiuchi. | 0′ | 0′ |
| 15 Lucida Lyræ. Vultur cadens. | ♑ 2 20 | 5 0′ |
| 16 Aquilæ Lucida. Vultur Volans. | ♑ 18 50′ | 22 20′ |
| 17 Lucida in cauda Cygni. | ♒ 24 10′ | 10 20′ |
| 18 Lucida in crure dextro Pegaſi. | ♓ 17 10′ | 20 40′ |
| 19 Alæ Pegaſi ultima. | ♓ 27 10′ | 0 |
| 20 Perſei lucidum latus. | ♉ 19 50′ | 0′ |
| 21 Cauda Leonis. | 0′ | ♍ 13 0′ |
| 22 Os Piſcis auſtralis. | ♒ 22 0′ | 0′ |
| 23 Canopus. | ♊ 2 10 | 0 |

# PRÆCIPUARUM FIXARUM CANON JUXTA OBSERVATIONES SELECTAS.

| ια *Ex Codice Arnoldino apud Gassendum pro anno Christi 1364.* | | | ιϛ *Ex Codicibus Illustrium virorum Savilii & Bodleii, quasi pro an. Chr. 750.* | | | ιγ *Mohammedi Tizinio anno Christi 1533.* | | |
|---|---|---|---|---|---|---|---|---|
| | *Longit.* | | | *Longit.* | | *Ascens. recta.* | *Declin.* | |
| ♈ | 18 | 20′ | ♈ | 12 | 20′ | 130 17′ | 41 | 0 |
| | | | | | | 86 55′ | 56 | 41′ |
| ♉ | 17 | 45′ | ♉ | 2 | 50′ | 130 14′ | 39 | 43′ |
| ♊ | 1 | 0′ | ♉ | 19 | 50′ | 153 0′ | 15 | 43 |
| ♊ | 8 | 0 | | | | 163 43′ | 9 | 13′ |
| ♊ | 13 | 10′ | ♊ | 2 | 10′ | 161 39′ | 45 | 0′ |
| ♊ | 18 | 10′ | ♊ | 9 | 10′ | 173 15′ | 6 | 28′ |
| ♋ | 6 | 0′ | ♊ | 24 | 50 | 187 0′ | 15 | 50′ |
| ♋ | 17 | 20′ | ♋ | 6 | 40′ | 199 0′ | 6 | 5′ |
| ♌ | 20 | 40′ | ♌ | 9 | 39′ | 236 0′ | 14 | 8′ |
| ♍ | 15 | 0′ | ♍ | 4 | 50′ | 285 36′ | 8 | 29′ |
| ♍ | 14 | 10′ | ♌ | 4 | 10′ | 299 0′ | 22 | 14′ |
| ♐ | 27 | 40′ | ♏ | 7 19 | 20′ | 330 57′ | 22 | 42 |
| | | 0′ | | | 0 | 348 57′ | 13 | 9′ |
| ♏ | 5 | 30′ | ♐ | 24 | | 38 37′ | 5 | 29′ |
| ♏ | 22 | 0′ | ♍ | 15 | 0 | 22 5′ | 7 | 24′ |
| ♏ | 27 | 18′ | | | 0′ | 36 40′ | 43 | 50′ |
| ♓ | 20 | 20′ | | | 0′ | 71 0′ | 25 | 16′ |
| | | 0 | | | 0′ | 88 10′ | 12 | 23′ |
| | | 0′ | | | 0 | 133 46′ | 47 | 52′ |
| ♏ | 12 | 40′ | ♏ | 1 | 45′ | 261 20′ | 17 | 55′ |
| | | 0′ | | | | 68 45 | 33 | 51′ |
| | | 0′ | | | | 183 40′ | 51 | 35′ |

# CANON PRÆCIPUARUM ESTELLIS FIXIS SECUNDUM OBSERVATA MAJORUM.

| | *ıδ. Sahebodino Alepenſi ad Ilchanicas pro an. Chr.* 1436. | | *ıε. Olaodino Sateridæ in Tabulis Damaſcenis anno Chriſti.* 1480. | |
|---|---|---|---|---|
| | *Aſcenſ.* | *Declin.* | *Longit.* | *Aſcenſ.* | *Declin.* |
| 1 Ultima fluvii. | 132,10′ | 41,30′ | 0.20,34′ | 129,30′ | 17,0′ |
| 2 Lucida cathedræ Caſſiepeiæ. | 84,2° | 55, 45′ | 0.18,16′ | 83,50′ | 55,50′ |
| 3 Perſei caput Meduſæum. | 127,44′ | 39, 4° | 1.20,4′ | 127,55′ | 38,50′ |
| 4 Oculis Tauri auſtrinus. | 150,40′ | 15,20′ | 1.3, 4′ | 149,50′ | 15, 0′ |
| 5 Orionis pes ſiniſter. | 162,20′ | 9, 20′ | 0, | 167,50′ | 5, 10′ |
| 6 Capella Aurigæ. | 158,30′ | 44,43′ | 2.15,24′ | 157,40′ | 44,40′ |
| 7 Orionis humerus dexter. *Nonnullis* humerus ſiniſter præcedens. | 171,55′ | 6,15′ | 2.22,24′ | 170, 10′ | 6, 10′ |
| 8 Sirius. | 185,45′ | 15,43′ | 4.4,4′ | 184, 20′ | 15, 45′ |
| 9 Procyon. | 197,25′ | 6, 7′ | 4.19,44′ | 196,30′ | 6,30′ |
| 10 Leonis. | 234,0′ | 15,10′ | 4.24,44′ | 233, 30′ | 15,5′ |
| 11 Spica Virginis. | 283,40′ | 7,30′ | 6.16,30′ | 283,0′ | 7,30′ |
| 12 Arcturus. | 297,39′ | 33,8′ | 6.17,24′ | 297,0′ | 23, 30′ |
| 13 Antares. | 331,0′ | 24,12′ | 8. 3,4′ | 322,0′ | 24, 15′ |
| 14 Caput Ophiuchi. | 347,5′ | 13,20 | | | |
| 15 Lucida Lyræ. Vultur cadens. | 38, 32′ | 4,20′ | 9. 7, 44′ | 4, 0′ | 38, 30′ |
| 16 Aquilæ iucida. Vultur Volans. | 20, 5′ | 7, 3′ | 9. 24,14′ | 20, 0′ | 7, 5′ |
| 17 Lucida in cauda Cygni. | 36,20′ | 43,15′ | | 35,10′ | 4 ,30′ |
| 18 Lucida in crure dextro Pegaſi. | 68,50′ | 24,30′ | 11.22,34′ | 68 20′ | 240′ |
| 19 Alæ Pegaſi ultima. | 85,54′ | 11, 30′ | 0. 2, 34′ | 85,5′ | 11, 30′ |
| 20 Perſei lucidum latus. | 130,20′ | 47, 11′ | | 127,20′ | 1, 40′ |
| 21 Lauda Leonis. | 259,30′ | 17,55′ | 5.14,54′ | 259,5′ | 18,10′ |
| 22 Os Piſcis auſtralis. | 67, 25′ | 35,2′ | 10.24,24′ | | |
| 23 Canopus. | 183,30′ | 5,25′ | | 181,15′ | 51,50′ |

# CANON PRÆCIPUARUM E STELLIS FIXIS SECUNDUM OBSERVATA MAJORUM.

| | ♈ *Ex Tabulis Rodolphinis an. Chr.* 1600. *ad Contemplationes Tychonis Brahei.* | | ♎ *Ricciolo Bononienſi in Aſtronomia Reformata anno Chriſti,* 1660. | | | |
|---|---|---|---|---|---|---|
| | *Longit.* | *Latit.* | *Longit.* | *Latit.* | *Aſcenſ.* | *Declinat.* |
| 1. | ♈. 21, 10. 53, 30. | | ♈. 22, 0', 14". | 53, 30, 0. | | |
| 2. | ♈. 29, 35½. 51, 14½. | | ♉. 0, 22', 0". | 51, 17', 0". | 357, 44', 33". | 57, 18', 40". |
| 3. | ♉. 20, 37'. 22, 22'. | | ♉. 21, 32', 10". | 22, 22', 40". | 41, 33, 54". | 39, 36, 30". |
| 4. | ♊. 4. 12½. 5, 31'. | | ♊. 5, 1', 43". | 5, 30, 50". | 64, 6', 58". | 15, 46, 10". |
| 5. | ♊. 11, 37'. 31, 11'. | | ♊. 12, 3', 10". | 31, 10', 10". | 74, 32', 38". | 8, 37', 30". |
| 6. | ♊. 16, 16'. 22, 50½. | | ♊. 17, 6', 15". | 22, 51', 45". | 72, 52, 20". | 45, 36', 0". |
| 7. | ♊. 15, 23'. 16. 63'. | | ♊. 16, 13', 0". | 16, 52, 30". | 76, 45' 4". | 5, 59', 50". |
| 8. | ♋. 8, 35½. 39, 30'. | | ♋. 9, 3', 0". | 39, 32', 5". | 97, 30', 18". | 16, 16', 30". |
| 9. | ♋. 20, 8½. 15, 57'. | | ♋. 21, 6', 30". | 15, 57', 10 | 110, 22', 32". | 6, 4', 0". |
| 10. | ♌. 24, 17'. 0, 26½. | | ♌. 26, 4', 45". | 0, 26', 20". | 147, 31', 14". | 13, 36', 30". |
| 11. | ♎. 18, 16. 1, 59'. | | ♎. 19, 6, 0. | 1, 59', 30". | 196, 51', 0". | 9, 20', 30". |
| 12. | ♎. 18, 39½. 31, 2½. | | ♎ 19, 30', 40". | 0. 31, 0, 40". | 210, 4', 38". | 20, 59', 50". |
| 13. | ↦. 4, 13'. 4, 27'. | | ↦. 5, 1', 40". | 4, 26, 30". | 242, 10', 40". | 25, 33', 30". |
| 14. | ↦. 16, 50'. 35, 57'. | | ↦ 17, 43', 20". | 35, 56', 15". | 259, 47', 14". | 12, 52'. 30". |
| 15. | ♐. 9, 43. 61, 47½. | | ♐ 10, 32', 40". | 61, 47', 0". | 276, 9', 32". | 30, 50', 40". |
| 16. | ♐. 26, 9'. 29, 21½. | | ♐ 26, 58', 30". | 29, 20', 40". | 293, 31', 59". | 8, 1', 20". |
| 17. | ♒. 29, 53½. 59, 56½. | | ♓. 0, 41', 25. | 59, 57, 20. | 307, 26', 35". | 44, 6', 40". |
| 18. | ♓. 23, 49½. 31, 7½. | | ♓. 24, 40', 20". | 31, 8', 20". | 341, 51', 48". | 29, 15', 50". |
| 19. | ♓. 3, 28½. 12, 35'. | | ♓. 4, 26', 20". | 12, 37', 0". | 358, 57', 0". | 13, 19', 20". |
| 20. | ♉. 26, 17'. 30, 5'. | | ♉. 27, 0', 8". | 30, 5', 40". | 44, 52', 30". | 48, 34', 30". |
| 21. | ♍. 16, 3'. 12, 18'. | | ♍. 16, 53', 0". | 12, 16', 20". | 172, 53', 58". | 16, 27', 40". |
| 22. | ♒. 28, 11½. 21, 0'. | | ♒. 29, 2', 56". | 20, 59', 40". | 339, 37', 0". | 31, 20', 10". |
| 23. | | | | | | |

# m. PRÆCIPUARUM FIXARUM DISTANTIÆ JUXT OBSERVATIONES SELECTAS.

| | |
|---|---|
| 1 Ultima fluvii. | 1. 0. |
| 2 Lucida cathedræ Caſſiepeiæ. | 2. à Seat 33, 4′. à cauda cygni 33, 32½. |
| 3 Perſei caput Meduſæum. | 3. à latere Perſei 9, 23⅙. à capella 23, 37′. |
| 4 Oculus Tauri auſtrinus. | 4. à Sirio 45, 58⅓. ab Algomeiſa 46, 22′. |
| 5 Orionis pes ſiniſter. | 5 ab oculo tauri 56, 33′. à capella 54, 15½. |
| 6 Capella Aurigæ. | 6. ab oculo tauri 36, 43½. à Perſei latere 19, 1 |
| 7 Orionis humerus dexter. *Nonnullis* humerus ſiniſter præcedens. | 7. ab oculo tauri 15, 47⅗. |
| 8 Sirius. | 8. ab Algomeiſa 25, 42′. à rigel 23, 40′. |
| 9 Procyon. | 9. à regulo 37, 20′. à rigel 38, 37½. |
| 10 Cor Leonis. | 10. à Spica 54, 2′. à cauda cygni 24, 39½. |
| 11 Spica Virginis. | 11. ab Arcturo 33, 2′. ab Antare. 45, 52′. |
| 12 Arcturus. | 12. à regulo 59, 49′. ab Antare 56, 4⅙. |
| 13 Antares. | 13. à lucida Aquilæ 60, 9½. à cauda Leonis 24, |
| 14 Caput Ophiuchi. | 14. à Spica 36, 14½. a lyræ lucida 29, 33⅔. |
| 15 Lucida Lyræ. Vultur cadens. | 15. à Seat 55, 30⅔. à Spica 9, 20½. |
| 16 Aquilæ lucida. Vultur Volans. | 16. à lucida Lyræ 34, 9. à cauda cygni 38, 4⅓. |
| 17 Lucida in cauda Cygni. | 17. à lucida Lyræ 23, 52′. à Seat 32, 57⅙. |
| 18 Lucida in crure dextro Pegaſi. | 18. ab algenib 20, 37′. à lucida cath. Caſſiepeiæ 22 |
| 19 Alæ Pegaſi ultima. | 19. à latere Perſei 51, 45⅙. |
| 20 Perſei lucidum latus. | 20. ab Oculo tauri 36, 20⅓. |
| 21 Cauda Leonis. | 21. à Spica 35, 2⅙. |
| 22 Os Piſcis auſtralis. | 22. 0. |
| 23 Canopus. | 23. 0. |

# CANON PRÆCIPUARUM ESTELLIS FIXIS SECUNDUM OBSERVATA MAJORUM.

*19. Octo Fixarum nobilium declinationes ex curis antiquis, consulto etiam illustri Brahea.*

| | | *Timocharidi. ante Chr.* 295. | *Hipparcho. a.Chr.* 128. | *Ptolemæo. Chr.* 137. | *Tychoni. Chr.* 600. |
|---|---|---|---|---|---|
| 4. | Oculus Tauri. | 8, 45′ *b.* | 9, 45′ *b.* | 11, 0′ *b.* | 15, 38½′ *b.* |
| α. 6. | Capella. | | 40, 24′ *b.* | 41, 10′ *b.* | 25, 28⅔′ *b.* |
| 8. | Sirius. | 15, 20′ *m.* | 16, 0 *m.* | 16, 45′ *m.* | 16, 11 *m.* |
| β. 10. | Regulus. | 21, 20 *b.* | 20, 40′ *b.* | 19, 50½′ *b.* | 13, 53½′ *b.* |
| ſ. 11. | Spica. | 1, 24′ *b.* | 0, 36′ *b.* | 0, 36 *m.* | 9, 1 *m.* |
| 12. | Arcturus. | 31, 30′ *b.* | 31, 0 *b.* | 29, 50½ *b.* | 21, 18½′ *b.* |
| 13. | Antares. | 18, 20′ *m.* | 19, 0 *m.* | 20, 25 *m.* | 25, 26 *m.* |
| 16. | Aquilæ lucida. | 5, 48′ *b.* | 5, 48 *b.* | 5, 50½ *b.* | 7, 54 *b.* |

α. Aristyllo circa an. 300, ante Chr. Capellæ declin. 40, 0′ *b.*

β. Hipparcho ante Chr. 128. Reguli longit. ♌. 29, 50′. ☞

ſ. Timocharidi ante Chr. 295. Spicæ longit. ♍ 22, 20′.
ante Chr. 283. Spicæ longit. ♍ 22, 30′.
Hipparcho ante Chr. 128. Spicæ longit. ♍ 24, 0.
Menelao anno Chr. 97. Spicæ longit. ♍ 25, 45.
Spicæ Declin. 0, 40 *m.*

☞ Dein Albatanio, Chr 879. Reguli longit. ♌. 14′, 0. Spatio itaq; annorum 742. grad. 11. 50′. aut potius gr. 11, 30′. propter Reguli longit. Ptolemaicam ♌ 2, 30′; non 2, 10′. sicut olim legerat Astronomus Raccensis.

*Oculi Tauri Longitudo.*

| *Anno Christi.* | |
|---|---|
| | Hermeti. 25, 17′. ♓. |
| | Hipparcho. 10, 0. ♈. |
| 140. | Ptolemæo. 12, 40. |
| 851. | Abomasaro. 19, 15. |
| 831. | Thabeto. 21, 17. |
| | Arzacheli. 23, 20. |
| | Albatanio. 24, 30. |
| | R. Grostetio. 28, 40. |
| 1316. | W. Evesham. 29, 0. |

*Addit Fixarum Longitudinibus Ptolemaicis gr. anno Christi*

| | | |
|---|---|---|
| Alphonsus. | 17, 8′. | 1303. |
| Wymundus | 5, 52′. | 1320. |
| Walterus Vig. | 19, 5′. | 1440. |

Prima arietis distat ab æquinoctio verno gr. 25, 40′.
*Hic omnia Walterus Vigornienſis Cod.* 13. *inter Digbianos.*

*Progrediuntur autem Stellæ Fixæ gradum unum annis ſolaribus.*

1. Hipparcho, Ptolemæo, Theoni, Proclo, & Alfergano. ——— 100.
2. Timocharidi Alexandrino, qui obſervarat ſpicam cæleſtem annis Nabon. 454 & 466. Abdorahmano Salehio, & D. Petavio. 072 ſive $\frac{60}{10}$ & 50″ quovis anno.
3. Johannidæ Ægyptio, Canonum Hacimicorum conditori ——— 70 $\frac{1}{4}$.
4. Jahiæ f. Abomanſori, aliiſque Probatæ, quam vocarunt, Aſtronomiæ auctoribus: necnon Naſirodino Tuſio, Cotbodino Siraſio, Ologbeco Mogolorum domino, Xacholgio, Abolphetacho, Abeneſdræ, Maimonidæ, & pleriſque juniorum. } 70. & 51″, 26‴.
5. Chryſococcæ in Perſicis, & Aſtron. Anglicis an. Chr. 1300. 68 & 52″, 23‴.
6. Aſtronomis pleriſque Arabum ſub Mamone principe ——— 66 $\frac{2}{3}$.
7. Abdorahmano Sophio, Bahodino Chorcio, Alphonſo regi, Albatanio ex Racca, quæ eſt Callinicos Meſotopotamiæ, Abdogalilo Segazio, Levi & Zacuto Judæis, & Obſervatorum Maragenſium nonnullis. } 66 & 54″, 33‴.
8. Copernico, Mæſtlino, aliiſque fide illorum — *fere* 71. & 50″. 12‴, 5⁗.
9. Nonnullis apud Chorcium Arabem. ——— 54.
10. Tychoni Braheo, Keplero, Bullialdo, ex obliquitate Zod *gr.* 23 $\frac{1}{2}$ 7 $\frac{7}{12}$. & 51″.
11. Longomontano. ——— 72 $\frac{1}{3}$. & 49″, 54‴.
12. Gaſſendo. ——— 70 $\frac{1}{3}$. & 51″, 19‴, 24⁗.
13. Riccioło in Aſtr. Reformata, ex obliq. Zod. *gr.* 23, 30′, 20″. 71, 19 $\frac{1}{2}$ *d.* 50″, 40‴.
14. Nobis, & Ægyptiorum Hierophantis. 71, 9 $\frac{2}{3}$, *menſ.* & 50″, 9‴ $\frac{1}{4}$. *fere.*